

Notice of Allowability

Application No.

09/758,040

Examiner

Tesfaldet Bocure

Applicant(s)

LEE ET AL.

Art Unit

2631

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 9/24/04.
2. ☒ The allowed claim(s) is/are 1-10.
3. ☒ The drawings filed on 01/11/01 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 07/08/03
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

TESFALDET BOCL
PRIMARY EXAMINER

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: The claimed subject matter in claims 1-10 is allowable because the arts of record fail to teach or fairly suggest the claimed "A cell searching apparatus which searches for a cell based on a received asynchronous wideband direct-sequence code division multiple access (DS/CDMA) signal in a receiver, the received signal including a data channel and a synchronous channel composed of a ***primary synchronization code commonly used in every cell and a secondary synchronization code indicating a code group unique to each cell***, the cell searching apparatus comprising: a code group identifying unit for estimating and compensating for a frequency error between the synchronous channel and an internally generated primary synchronization code; ***estimating and compensating for channel characteristics which the synchronous channel has experienced, and correlating the compensated synchronous channel with available secondary synchronization codes, thereby identifying the code group; and a scrambling code identifying unit for correlating a plurality of scrambling codes belonging to the code group with the data channel, thereby obtaining a scrambling code unique to each cell***, as in claim 1; and a method of acquiring a scrambling code included in a code group from an asynchronous wideband direct-sequence code division multiple access (DS/CDMA) signal received in an asynchronous wideband DS/CDMA receiver, the received signal including a data channel and a synchronous channel composed of a ***primary synchronization code commonly used in every cell and a secondary synchronization code indicating a unique code***

Art Unit: 2631

group of each cell, the scrambling code being a spreading code unique to each cell, the method comprising: (a) **estimating and compensating for a frequency error between the synchronous channel and a primary synchronization code generated by a primary synchronization code generator**; (b) **estimating and compensating for characteristics of a channel which the synchronous channel has experienced**; (c) **correlating the compensated synchronous channel with available secondary synchronization codes, thereby identifying a secondary synchronization code included in the synchronous channel**; (d) **correlating a plurality of scrambling codes belonging to a code group represented by the secondary synchronization code with the data channel to obtain a scrambling code unique to each cell** as in claim 7.”

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Information Disclosure Statement

3. Page 2-of 2 of the Information Disclosure Statement (IDS) received on July 8, 2003 was inadvertently sent to applicant without Examiner's initial and signature, the initialed and signed copy (second page) of the IDS is attached with this correspondence.

Art Unit: 2631

Response to Amendment

4. Applicant's response to the outstanding issue, 112 1st paragraph rejections are persuasive and have been withdrawn.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tesfaldet Bocure whose telephone number is (571) 272-3015. The examiner can normally be reached on Mon-Thur (7:30a-5:00p) & Mon.-Fri (7:30a-5:00p).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad H Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tesfaldet Bocure
Primary Examiner
Art Unit 2631

